

Title (en)

METHOD AND APPARATUS FOR VEHICLE LENGTH ESTIMATION

Title (de)

VERFAHREN UND VORRICHTUNG ZUR SCHÄTZUNG DER FAHRZEUGLÄNGE

Title (fr)

PROCÉDÉ ET APPAREIL D'ESTIMATION DE LONGUEUR DE VÉHICULE

Publication

**EP 4139891 A4 20240214 (EN)**

Application

**EP 20937268 A 20200529**

Priority

CN 2020093539 W 20200529

Abstract (en)

[origin: WO2021237750A1] A method, apparatus, system and computer-readable medium for vehicle length estimation are presented. A method includes: acquiring (S101) an image (30) from a camera (40) which monitors a roadside; obtaining (S102) a bounding box of a vehicle via object recognition; estimating (S103) length of the vehicle using a curve function  $d=f(x, y)$ , wherein  $d$  is the real distance from a specific point to a reference point at the roadside,  $x$  and  $y$  are pixel coordinates of the specific point on the image (30); the curve function is pre-calculated based on at least two preset calibration points including the reference point along the roadside.

IPC 8 full level

**G06T 7/60** (2017.01); **G06T 7/80** (2017.01)

CPC (source: EP)

**G06T 7/60** (2013.01); **G06T 2207/30248** (2013.01)

Citation (search report)

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- [A] US 2016232410 A1 20160811 - KELLY MICHAEL F [CA], et al
- [A] HAN J ET AL: "Vehicle distance estimation using a mono-camera for FCW/AEB systems", INTERNATIONAL JOURNAL OF AUTOMOTIVE TECHNOLOGY, THE KOREAN SOCIETY OF AUTOMOTIVE ENGINEERS, HEIDELBERG, vol. 17, no. 3, 30 April 2016 (2016-04-30), pages 483 - 491, XP035676322, ISSN: 1229-9138, [retrieved on 20160430], DOI: 10.1007/S12239-016-0050-9
- See also references of WO 2021237750A1

Designated contracting state (EPC)

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